



# Projects Update For Ward 2

d.

Tuesday, December 9, 2014

# Public Outreach for Ward 2

## Projects Update Meeting

- Posted public notice to DDOT website and on DDOT Twitter and Facebook pages
- Distributed the public notice three (3) times to DDOT community and press email distribution lists
- Notified the Mayor's Office of Neighborhood Engagement to inform residents
- Notified Councilmember Jack Evans' Office to inform residents
- Notified ANC Commissioners to inform residents
- Posted flyers in the four (4) public libraries in Ward 2
- Posted flyers on the community billboards at the entrance of Whole Foods Grocery Stores on I and P Streets NW
- Distributed flyers to two (2) bicycle shops in Ward 2

# Public Outreach for Ward 2

## Projects Update Meeting (con't)

- Notified relevant (and still active) Ward 2 Community Groups listed on the Mayor's Office of Neighborhood Engagement website:
  - Ashley Dwellings Senior Association
  - Blagden Alley Association
  - Citizens Association of Georgetown
  - Convention Center Community Association
  - Dupont Circle Citizens Association
  - East Central Civic Association
  - Foggy Bottom Association
  - French Street Neighborhood Association
  - Mount Vernon Square Neighborhood Association

# Agenda

**6:30 p.m. Call to Order and Welcome – Delmar Lytle, Facilitator**

**6:35 p.m. Opening Remarks – Matthew Brown, Director**

**6:40 p.m. Engineering Remarks – Muhammed Khalid, Interim Chief Engineer**

**6:45 p.m. Administrative Remarks – Delmar Lytle**

**6:50 p.m. Group 1:**

- **Project Development Process Overview**
- **move DC**
- **Multimodal Value Pricing Pilot  
for Metered Curbside Parking**
- **DC Streetcar – Overview**
- **DC Streetcar – North-South Corridor**
- **Alley Reconstruction 31<sup>st</sup> and R Streets NW**

**7:15 p.m. Group 3:**

- **Traffic Improvements**
- **Asset Management**
- **Green Infrastructure & Low  
Impact Development**
- **Urban Forestry**
- **Street Light Upgrades**
- **Other Projects**

**7:05 p.m. Group 2:**

- **Rehab of Pennsylvania Avenue Bridge**
- **Rehab of Theodore Roosevelt Bridge**
- **Dupont Crown Plaza Feasibility Study**
- **Replacement of 31<sup>st</sup> Street Bridge**
- **Rehab of Francis Scott Key Bridge**

**7:30 p.m. Questions**

**7:55 p.m. Next Steps**

**8:00 p.m. Adjourn**

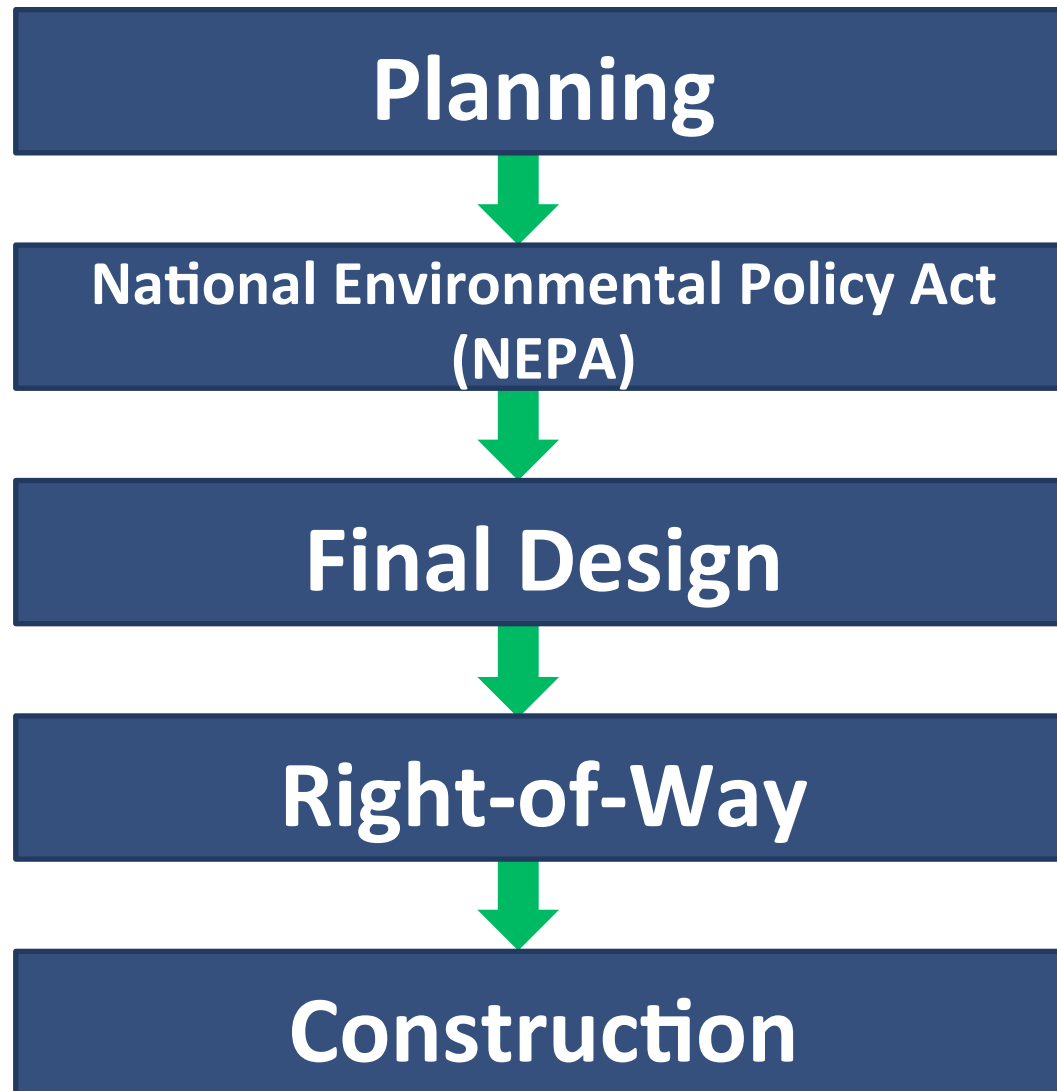


# Projects Update For Ward 2

d.

Group 1

# Transportation Project Development Process



# moveDC is...

▶ **Statewide Vision Plan** – Mandated by FHWA, similar to what MDOT, VDOT, and other state DOTs produce

▶ **Local Transportation Plan** – like what major cities produce, New York, San Francisco, London, Vancouver

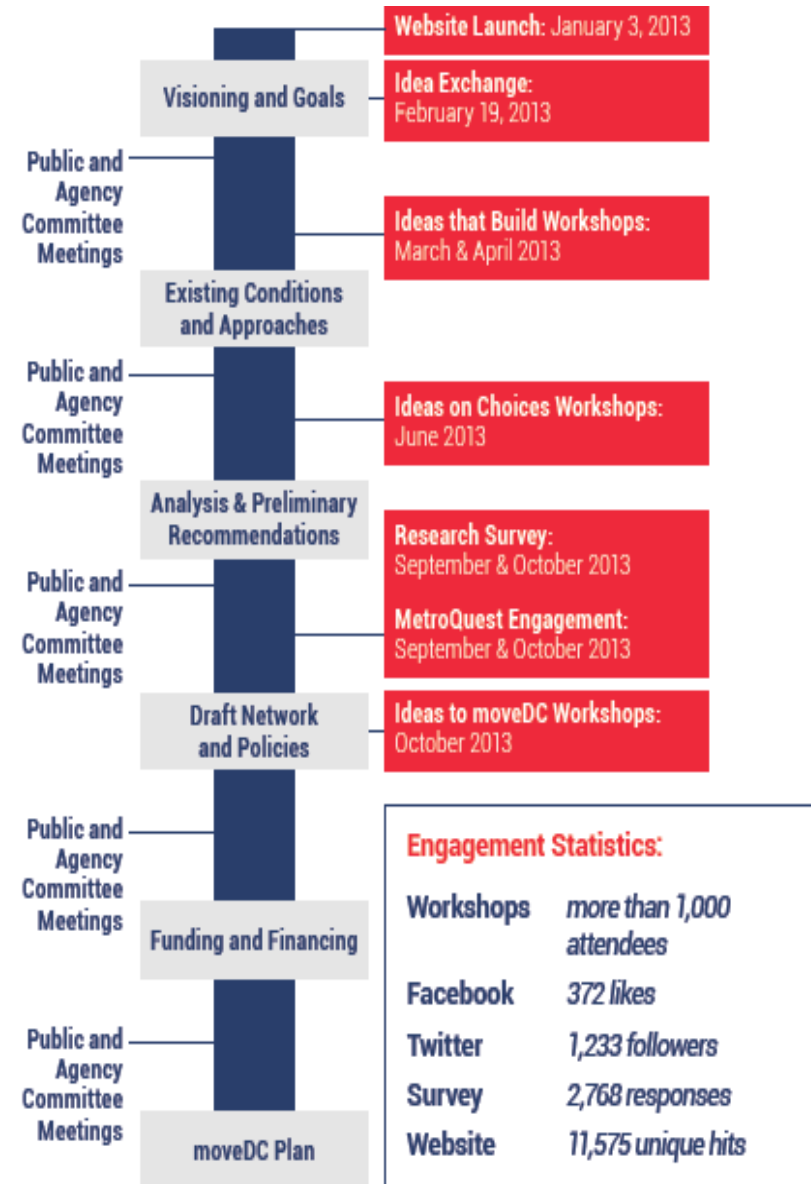
▶ **Blueprint to support future growth** – District's last long-range plan was in 1997 even as travel has changed radically

# moveDC

## Goals:

- Sustainability and Health
  - Achieve 75% of District trips by non-auto modes
- Citywide Accessibility and Mobility
- Neighborhood Accessibility and Connectivity
- Safety and Security
  - Achieve zero fatalities and serious injuries on transportation network
- Public Space
  - Reinforce Washington DC's historic landscapes and quality of public space
- Preservation
  - Achieve a state of good repair for all District infrastructure
- Funding and Financing
  - Invest to achieve outcomes within planning horizon

## Public Engagement from Day 1!





# moveDC



## Status:

- Final document was released October 21
- Two Year Action Plan released
  - 36 recommendations
  - Improvements to all modes
  - Metrics to assess performance
- Quarterly and Annual reporting

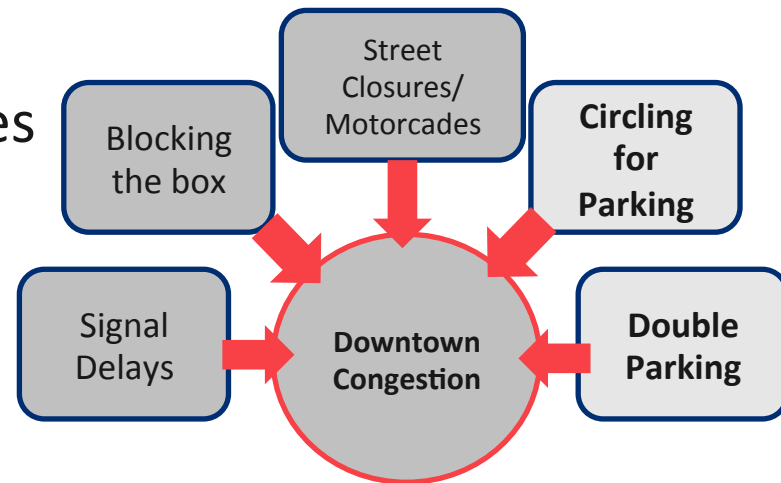


# Multimodal Value Pricing Pilot for Metered Curbside Parking

## *A Smart Approach to Parking*

### *The Parking Ecosystem is Unbalanced*

- Rebalance supply and demand:
  - Push parkers to underutilized spaces
  - Provide better parking information
  - Encourage higher turnover
  - Encourage use of other modes
- This will be accomplished through:
  - Demand-based pricing
  - Real-time parking availability information



Curbside parking is  
“oversubscribed”

# Multimodal Value Pricing Pilot for Metered Curbside Parking

## *Key Project Activities*

- **Q1 2015**
  - Transition to pay-by-space parking
  - Install “asset lite” parking occupancy detection
  - Test new signage
- **Q2 2015**
  - Baseline conditions assessment
- **Q3 2015**
  - Implement first demand based parking pricing changes
  - Provide real-time parking availability information
- **Q4 2015 to Q4 2016**
  - Adjust pricing (up and down)
  - Conduct surveys and assess impacts
  - Comprehensive impact assessment

## Chinatown/Penn Quarter Study Area





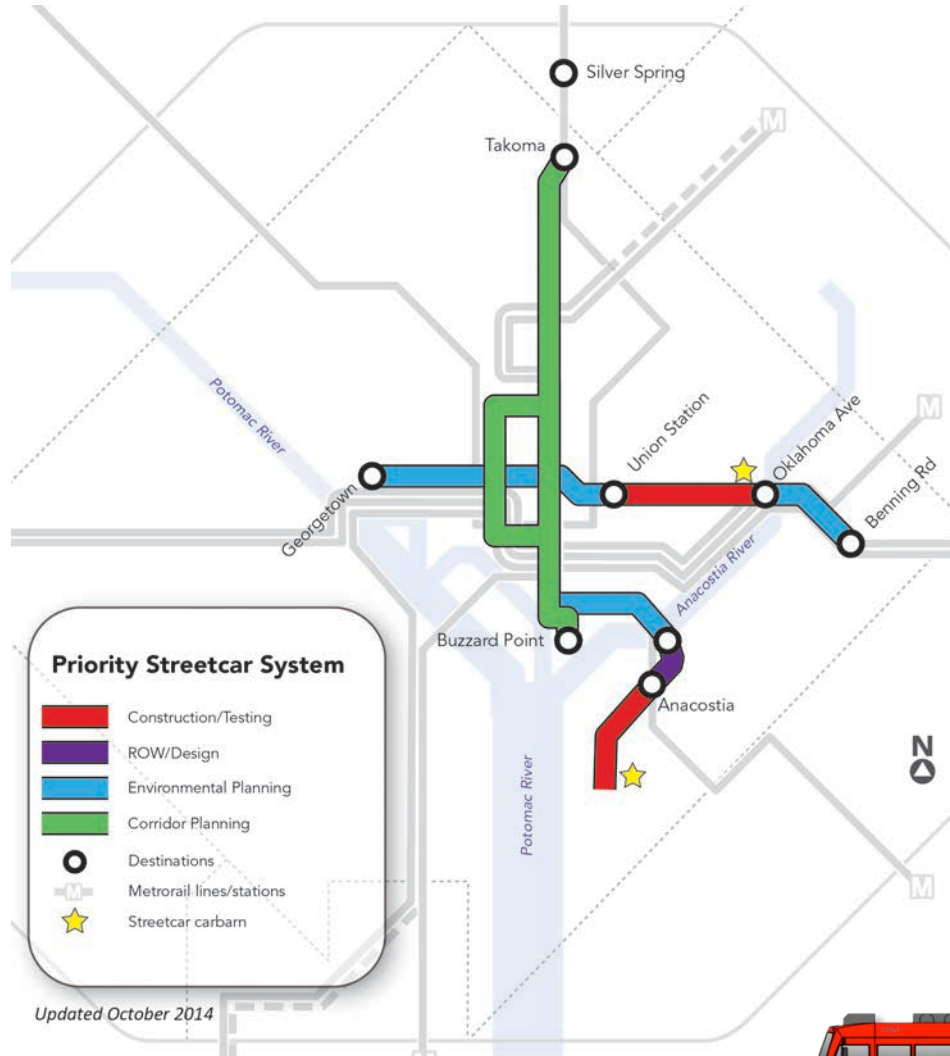
# Multimodal Value Pricing Pilot for Metered Curbside Parking

## *Planned Public Outreach – Multiple Touch Points*

- Meetings with business, commerce and neighborhood groups
- Social media
- Press releases
- Technology demonstrations
- ParkDC website updates
- Mobile applications



# DC Streetcar Priority Streetcar System (PSS)



## WARD 2 STREETCAR PROJECTS

- **Environmental Process**
  - Union Station to Georgetown
  - EOY 2015
- **Corridor Planning**
  - North-South Corridor
  - 1st Quarter 2015



# DC Streetcar (North-South Corridor) Planning Study Public Outreach



- Visited every ANC along the corridor to alert them to the public meeting series
- Conducted three public meeting series
  - Each meeting series consisted of three public workshops
  - The second and third meeting series had extended hours (3:30-8:30 p.m.) to accommodate a wide variety of schedules
- The study resulted in four potential North-South streetcar routes
  - No decision about preferred alignment

# Alternative 1

(7<sup>th</sup>/Georgia)



# Alternative 2

(7<sup>th</sup>/F St/14<sup>th</sup> St/U St/Georgia)



# Alternative 3

(4<sup>th</sup>/Penn Ave/7<sup>th</sup>/F St/11<sup>th</sup> St/  
Vermont/Sherman/New Hampshire/  
Georgia/Butternut)



# Alternative 4

(4<sup>th</sup>/Penn Ave/7<sup>th</sup>/F St/9<sup>th</sup> St/  
Vermont/Sherman/New Hampshire/  
Georgia/Butternut)





# DC Streetcar (North-South Corridor)

## Planning Study Results

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- Georgia Avenue experiences moderate travel delay
- 7<sup>th</sup> Street experiences more significant travel delay
- Bus speeds vary significantly
- Bus service experiences bunching
- Current bus ridership is significant and growing
- Future travel conditions may experience significant delay
- Ridership projections for the North Segment are robust

# Alley Reconstruction at 31<sup>st</sup> and R Street NW

## Goals:

- Reconstruct unimproved alley with concrete
- New storm sewer installation

## Status:

- Construction began on December 1

## Schedule:

<u>Project Milestones</u>	<u>Date</u>
Construction Start	December 2014
Construction Complete	Spring 2015





# Projects Update For Ward 2

d.

Group 2

# Rehabilitation of the Pennsylvania Avenue Bridge

## Goals:

- Increase service life of the bridge
- Improve accessibility and comply with Americans with Disabilities Act (ADA)
- Increase lighting on the bridge

## Status

- Final design in progress

## Schedule:

<u>Project Milestones</u>	<u>Date</u>
Design Complete	Spring 2015
Construction Start	Summer/Fall 2015
Construction Complete	Fall/Winter 2016

Pennsylvania Avenue Bridge  
over Rock Creek





# Rehabilitation of the Theodore Roosevelt Bridge

## Goals:

- Assess structural condition of bridge
- Assess needs for extended life cycle
- Improve pedestrian and bicycle safety and ADA compliance on the bridge
- Information to be used to develop design options

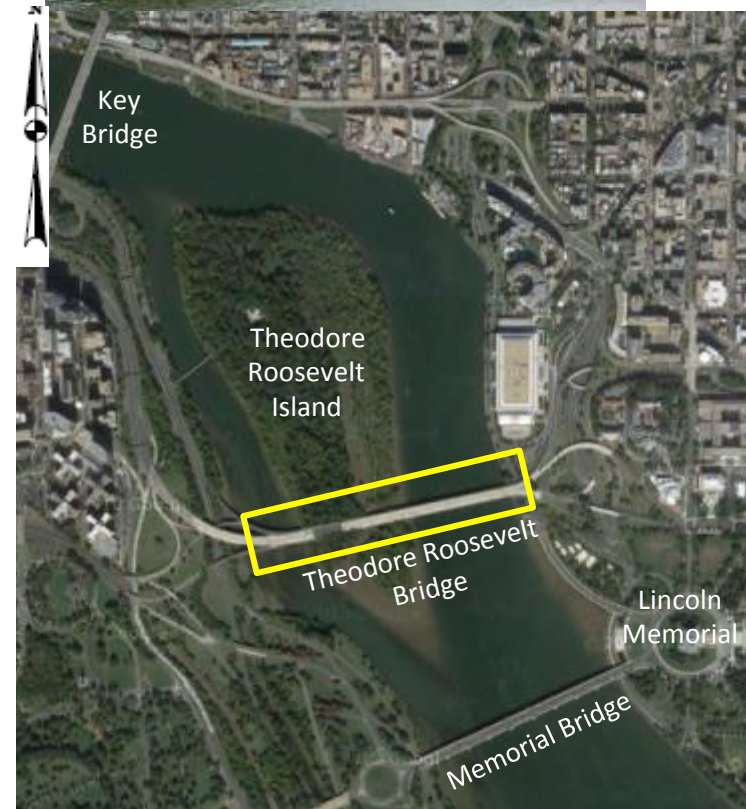
## Status:

- Investigation and assessment in progress

## Schedule:

<u>Project Milestones</u>	<u>Date</u>
Investigation Start	Fall 2014
Investigation Complete	Winter 2014/2015
Alternatives Analysis	9 Months
Final Design	TBD
Construction	TBD

Theodore Roosevelt Bridge  
over Potomac River



# Replacement of 31<sup>st</sup> Street NW Bridge

**31<sup>st</sup> Street Bridge over C&O Canal**  
(Note: Wisconsin Avenue Bridge in Background)

## Goals:

- Replace the existing structurally deficient bridge with a new 75 year design
- Preserve character of the existing structure
- Improve pedestrian, bicycle, and vehicular circulation
- Repair and retain the existing pier
- Minimize environmental impacts

## Status:

- Design phase 50% complete



## Schedule:

<u>Project Milestones</u>	<u>Date/Time of Year</u>
Design Complete	Spring/Summer 2015
Construction Start	Fall 2015
Construction Complete	Spring 2017

# Rehabilitation of the Francis Scott Key Bridge

## Goals:

- Upgrade bridge condition to maintain current level of service for 30 years
- Preserve architectural character of the existing structure.
- Improve pedestrian and bicycle safety on the bridge
- Improve street lighting on the bridge

## Status:

- Design phase complete
- Procurement scheduled for 2015

## Schedule:

<u>Project Milestones</u>	<u>Date</u>
Construction Start	May 2015
Construction Complete	May 2017

**Key Bridge crossing Potomac River between Georgetown and Rosslyn**





# Dupont Crown Plaza Feasibility Study

## Goals:

- Create bridge structure and new green space over depressed section of Connecticut Avenue to reconnect both sides of the neighborhood
- Provide new streetscape and landscape
- Assess engineering and environmental challenges
- Develop preliminary construction cost estimate

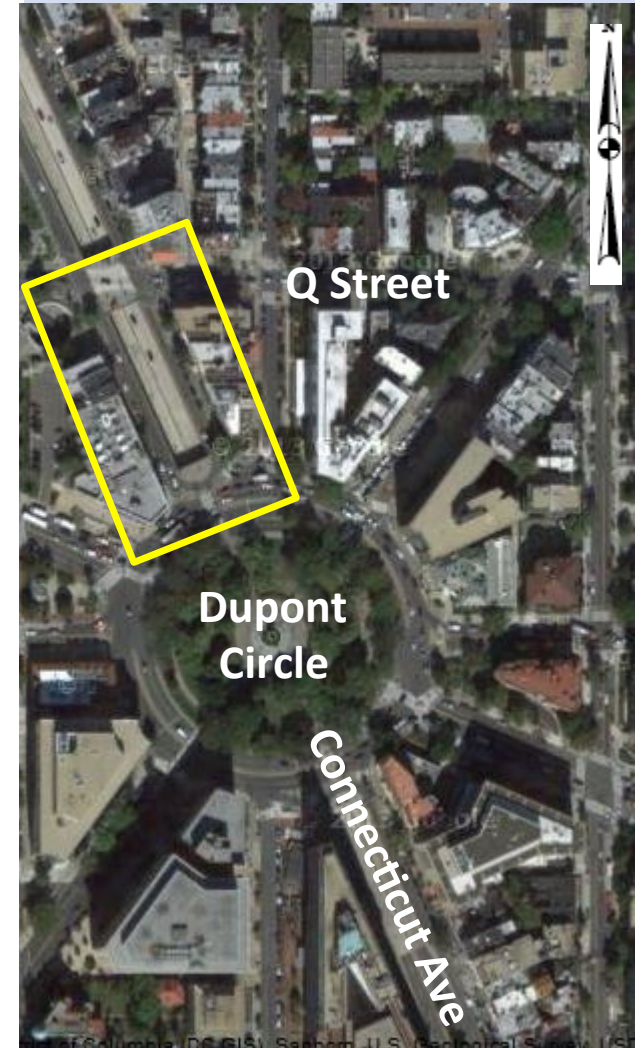
## Status

- Soliciting for consultant to perform study

## Schedule:

<u>Project Milestones</u>	<u>Date</u>
Contract Award	January 2015
Feasibility Study Complete	January 2016
Environmental Approvals	TBD

## Dupont Crown Plaza Connecticut Avenue NW from Dupont Circle to Q





# Dupont Crown Plaza Feasibility Study

**Unofficial Concept Sketch of Dupont Crown Plaza  
by Architect John Jedzinak**





# Projects Update For Ward 2

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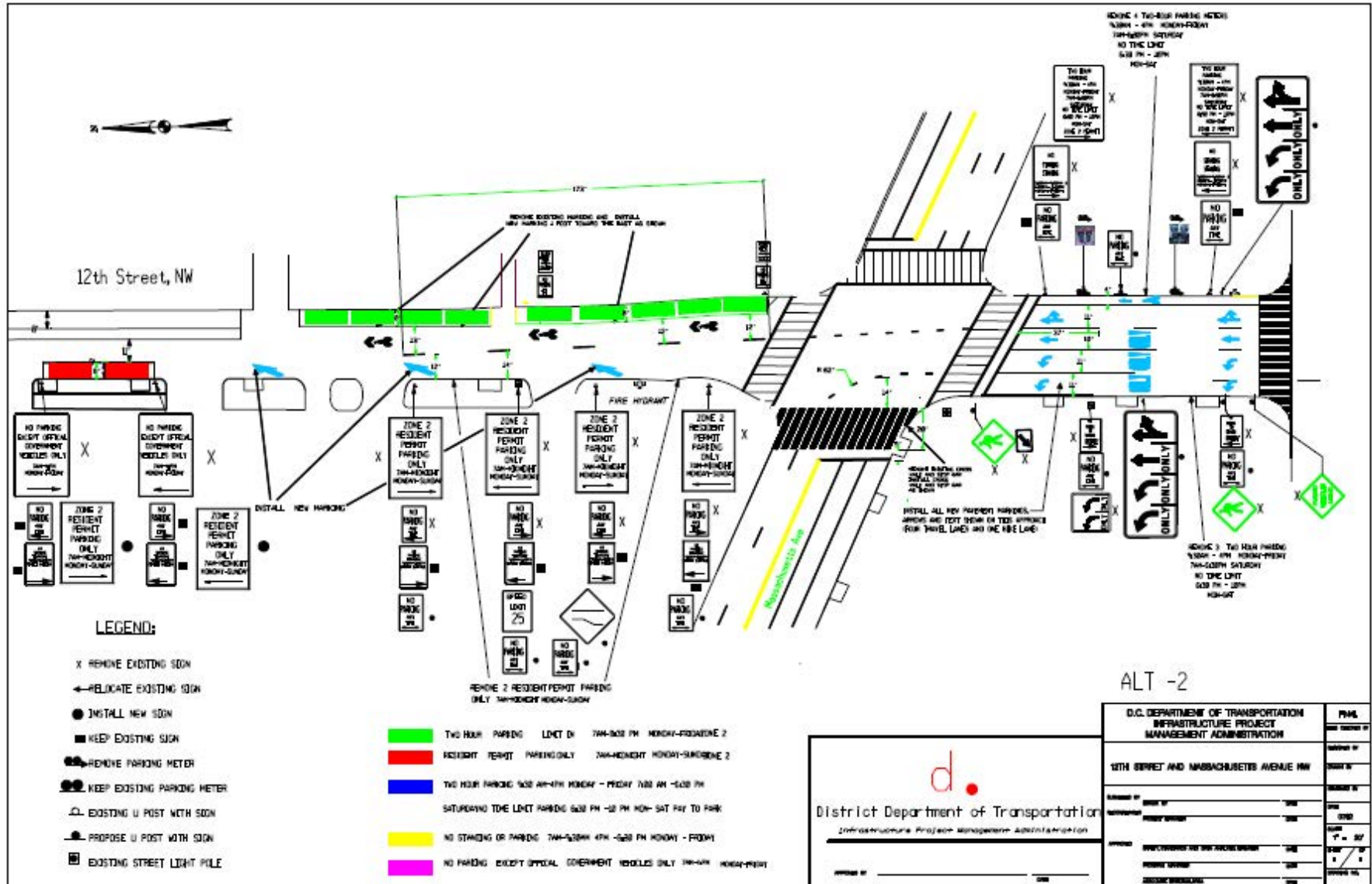
Group 3

# Traffic Improvements

- Signal Optimization
- Road Safety Audits
- Highway Safety Improvement Program (HSIP)
- Traffic Calming Application



# 12<sup>th</sup> Street and Massachusetts Avenue Redesign

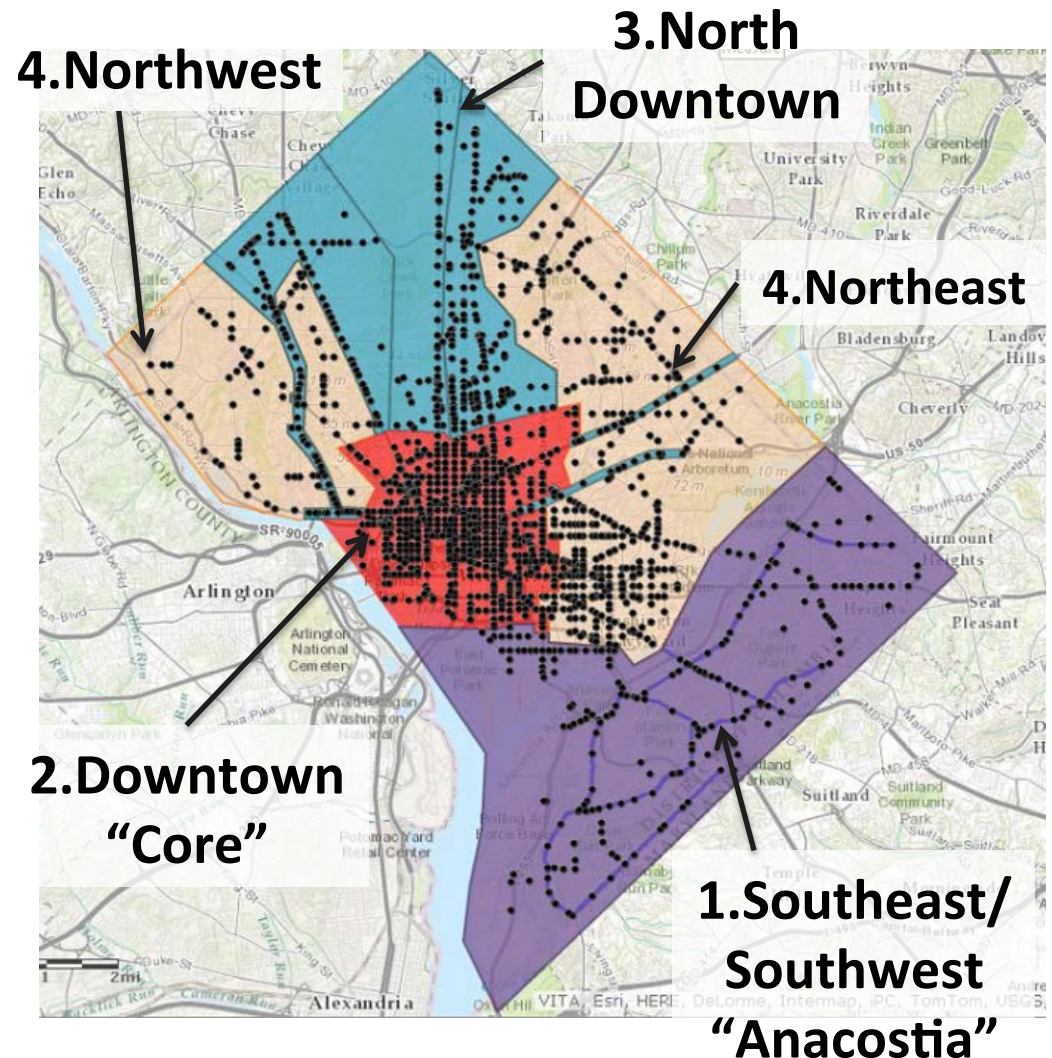




# Citywide Traffic Signal Optimization Services

## Project Approach

- Network Partitioning
  - 4 networks
  - Range from 200 to 700 intersections
- Priority Corridor “Quick” Optimization
  - Georgia Avenue
  - Wisconsin Avenue
  - 16<sup>th</sup> Street
- Adaptive Corridors
  - Pennsylvania Avenue
  - Rhode Island Avenue
  - New York Avenue



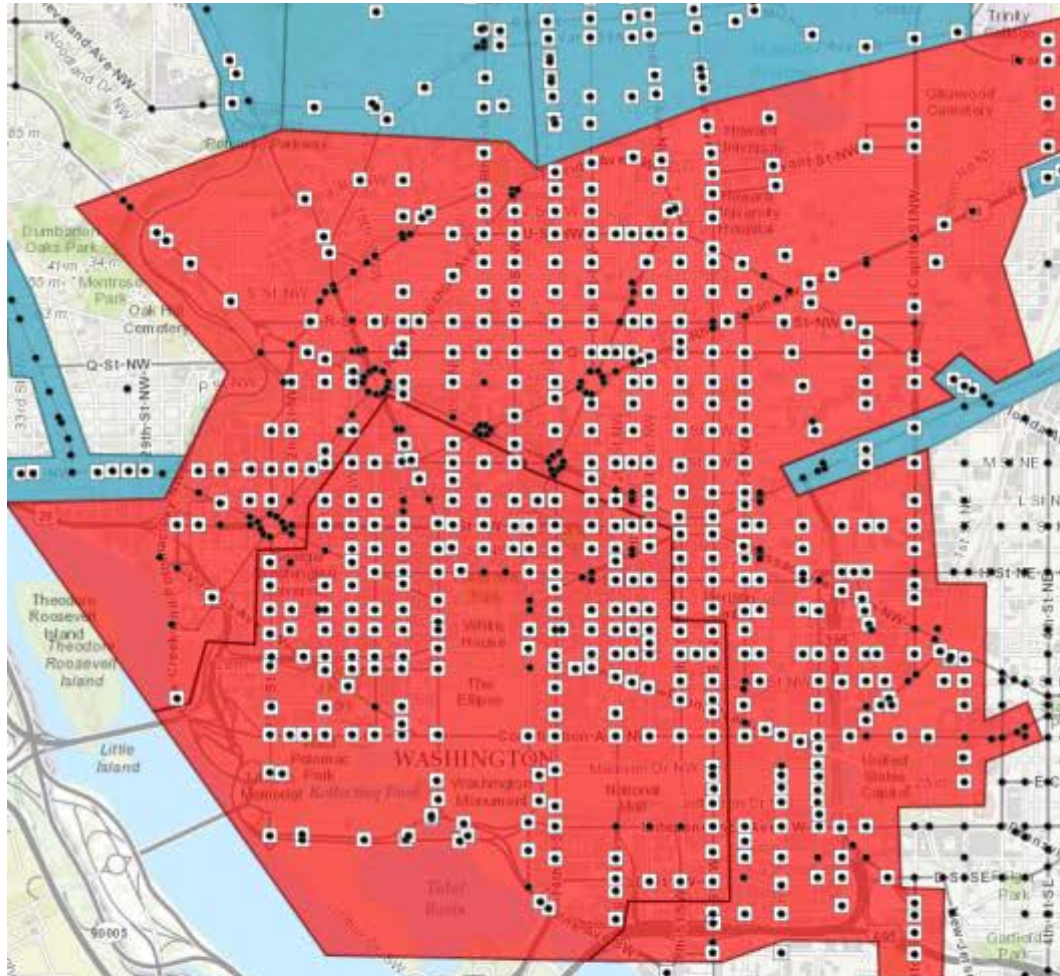
# Citywide Traffic Signal Optimization Services

## *Anacostia Results – Benefit versus Cost*

	Delay (hours)	Stops	Fuel Consumption (gal)	CO Emissions (kg)	NOx Emissions (kg)	VOC Emissions (kg)
<b>“Before”</b>	4,963,500	271,501,660	9,265,100	647,646	126,008	150,102
<b>“After”</b>	3,476,780	238,149,260	8,035,600	561,676	109,284	130,172
<b>Improvement</b>	1,486,720	33,352,400	1,229,500	85,970	16,724	19,930
<b>% Improvement</b>	30%	12%	13%	13%	13%	13%
<b>Annual Benefit</b>	\$40,186,042	\$4,669,336	\$4,795,050	\$602,734	\$237,353	\$147,082
<b>Total Annual Benefit</b>	\$50,637,596.48					
<b>Cost</b>	\$655,805.00					
<b>Benefit-Cost Ratio</b>	77:1					

# Citywide Traffic Signal Optimization Services

## *Network #2 – Downtown (639 Intersections)*

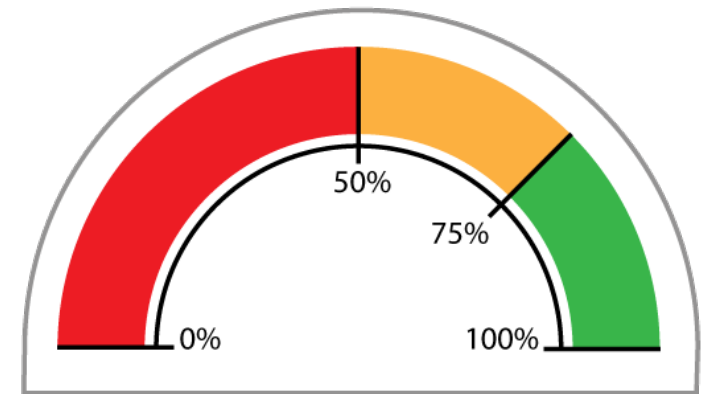




# Citywide Traffic Signal Optimization Services

## *Status Update*

- Intersection turning movement counts – 100%
- Field data collection – 100%
- Change and clearance interval calculations – 95%
- TS drawings – 95%
- Dial sheets phase 1 – 95%
- Phase 1 implementations (MUTCD compliance) – **90%**
- Synchro coding – 100%
- Volume balancing – 100%
- Before travel time and delay studies – 85%
- Signal timing optimization – 80%
- Dial sheets phase 2 – 0%
- Field implementation – 0%
- Fine tuning – 0%
- Final report – 0%





# Asset Management Projects

## FY-14 Completed Locations

### Sidewalk Repairs:

- Whitehurst Freeway NW (29<sup>th</sup> to 30<sup>th</sup> Street)
- Rhode Island Avenue NW (New Jersey Avenue to 15<sup>th</sup> Street)
- Dupont Circle NW (Massachusetts Avenue to P Street)
- 36<sup>th</sup> Street NW (T to S Street)
- 23<sup>rd</sup> Street NW (C to E Street)
- O Street NW (6<sup>th</sup> to 7<sup>th</sup> Street)
- S Street NW (35<sup>th</sup> to 37<sup>th</sup> Street)
- Interstate 395 NB (14<sup>th</sup> to 12<sup>th</sup> Street EXPY)
- M Street NW (23<sup>rd</sup> to 24<sup>th</sup> Street)
- O Street NW (5<sup>th</sup> to 6<sup>th</sup> Street)

### Street Paving:

- Logan Circle NW (at 13<sup>th</sup> Street)
- 14<sup>th</sup> Street NW (H to K Street)
- 16<sup>th</sup> Street NW (P to T Street)
- 23<sup>rd</sup> Street NW (C to E Street)
- H Street NW (17<sup>th</sup> to 18<sup>th</sup> Street)
- M Street NW (23<sup>rd</sup> to 24<sup>th</sup> Street)
- Independence Avenue NW (4<sup>th</sup> to 12<sup>th</sup> Street)
- I Street NW (20<sup>th</sup> to 21<sup>st</sup> Street)
- 13<sup>th</sup> Street NW (Logan Circle to K Street)



# Asset Management Projects

## FY-14 Completed Locations

### Alley Repairs:

- 1133 13<sup>th</sup> Street NW
- 1225 19<sup>th</sup> Street NW
- 1620 1<sup>st</sup> Street (even) NW
- 1300 Riggs Street (even) NW
- 1255 Wisconsin Avenue NW
- Dumbarton and Wisconsin Avenue NW



### Street Paving:

- 11<sup>th</sup> Street NW (Pennsylvania to New York Avenue)
- 12<sup>th</sup> Street NW (12<sup>th</sup> Street EXPY, Constitution Avenue to Pennsylvania Avenue)
- 12<sup>th</sup> Street NW (Pennsylvania Avenue to G Street)



# Asset Management Projects FY-15 Under Construction

## Sidewalk Repair:

- 27<sup>th</sup> Street NW (N to Dumbarton St)
- I Street NW (25<sup>th</sup> to 26<sup>th</sup> Street)
- Connecticut Avenue NW (L to De Sales)
- Prospect Street NW (34<sup>th</sup> to 35<sup>th</sup> St)
- 16<sup>th</sup> Street NW (Arkansas to Oglethorpe Street)



## Street Paving:

- 13½ Street NW (D St to Penn Ave)
- 26<sup>th</sup> Street NW (M St to Dead End)
- 12<sup>th</sup> Street NW (G St to NY Ave)
- 5<sup>th</sup> Street NE (T to V Street)
- 32<sup>nd</sup> Street NW (Fulton Street +)
- 16<sup>th</sup> St NW (Arkansas Ave to Mil Rd)
- Arizona Avenue NW (Nebraska Ave to Macarthur Blvd)
- Macarthur Blvd NW (Arizona Ave to Macomb Street)

# Asset Management Projects

## FY-15 Proposed Locations

### Alley Repair:

- 1313 Vermont Avenue NW
- 1518 K Street NW
- 1623 17<sup>th</sup> Street NW
- 1625 Massachusetts Avenue NW
- 1700-1736 Wisconsin Avenue NW
- 1733 16<sup>th</sup> Street NW
- 1836 15<sup>th</sup> Street NW
- 1949 39<sup>th</sup> Street NW
- 2725 P Street NW
- 1613 30<sup>th</sup> Street NW
- 1238 34<sup>th</sup> Street NW
- 3411 S Street NW
- 1600 U Street NW
- 534 Irving Street NW
- 1819 T Street NW



### Sidewalk Repair:

- 11<sup>th</sup> Street NW (E to F Street)
- 22<sup>nd</sup> Street NW (H to I Street)
- 26<sup>th</sup> Street NW (I Street to Queen Annes Lane)
- 9<sup>th</sup> Street NW (G Street to G Place)
- H Street NW (7<sup>th</sup> to 10<sup>th</sup> Street)
- I Street NW (6<sup>th</sup> to 7<sup>th</sup> Street)
- Warner Street NW (New Jersey Avenue to 5<sup>th</sup> Street)



# Asset Management Projects

## FY-15 Proposed Locations



### Street Paving:

- C Street NW (3<sup>rd</sup> to 6<sup>th</sup> Street)
- 23<sup>rd</sup> Street NW (L to N Street)
- 15<sup>th</sup> Street NW (L Street to Mass Ave)
- 18<sup>th</sup> Street NW (N Street to Mass Ave)
- 20<sup>th</sup> Street NW (L to N Street)
- M Street NW (Thomas Jefferson to 31<sup>st</sup> Street)
- Massachusetts Avenue NW (17<sup>th</sup> Street to Sheridan Circle (E))
- M Street NW (Thomas Circle (W) to 23<sup>rd</sup> Street)

### Slurry Seal:

- Dunbarton Street (Dead End to 31<sup>st</sup> Street)



# Green Infrastructure (GI) & Low Impact Development (LID)

## Ward 2: CSO & MS4 Area

- **Goals for GI & LID**

- Reduce Stormwater Runoff from streets, sidewalks, and alleys using green infrastructure;
- Improve water quality, air quality, reduce urban heat island

- **Regulatory Requirements**

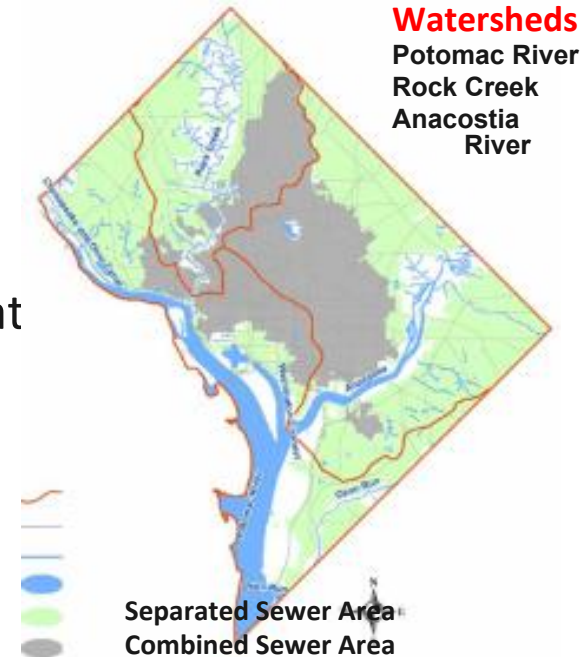
- EPA Stormwater (MS4) Permit
- District Stormwater Regulations (2013) require retention of 1.2 inches of runoff on major projects

- **Projects with GI & LID**

- Major construction – meet regulations
- Retrofit projects – Neighborhood sites & Green Alleys citywide

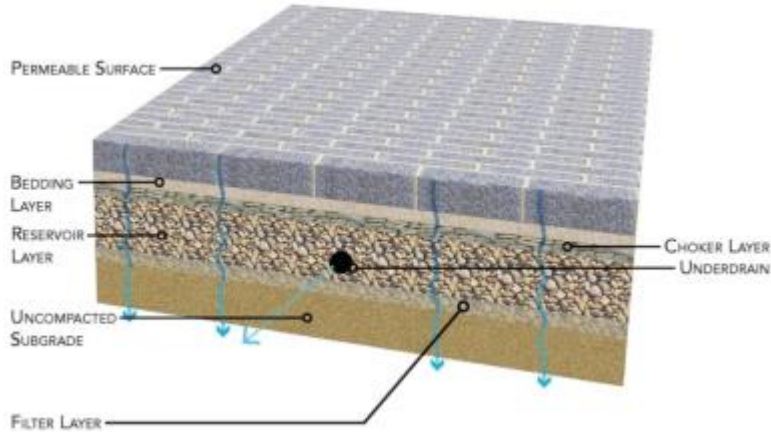
- **DDOT Green Infrastructure Standards**

- [www.ddot.dc.gov/GreenInfrastructure](http://www.ddot.dc.gov/GreenInfrastructure)

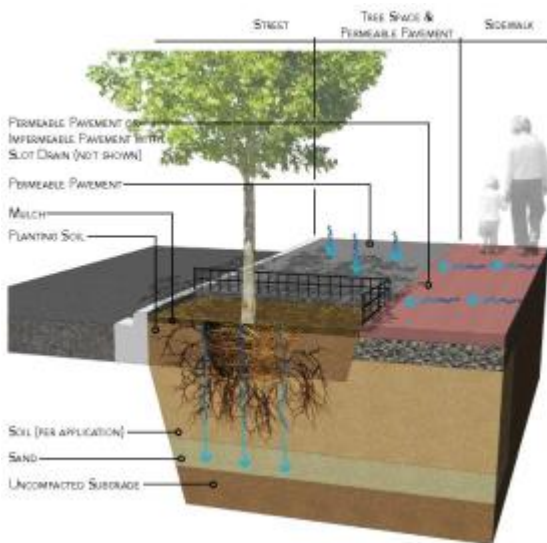


# Green Infrastructure Practices

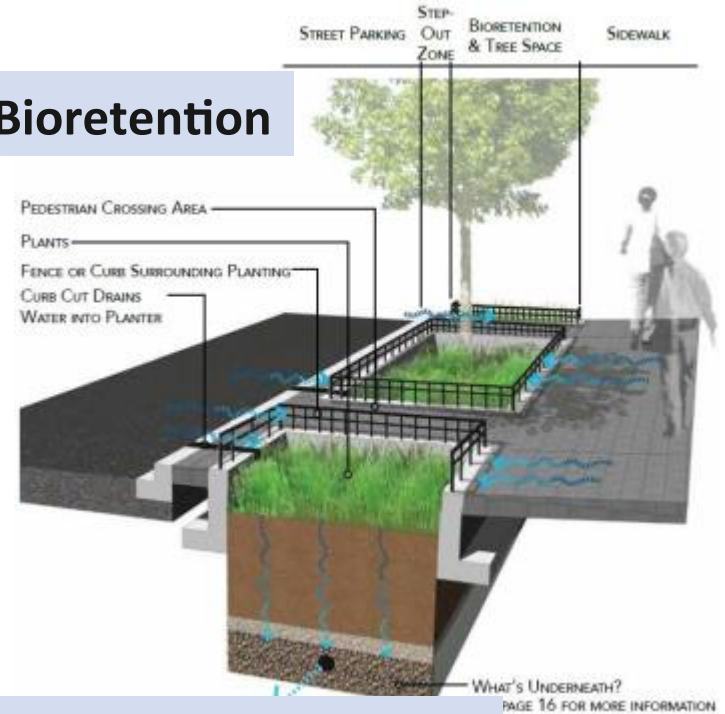
## Permeable Pavement



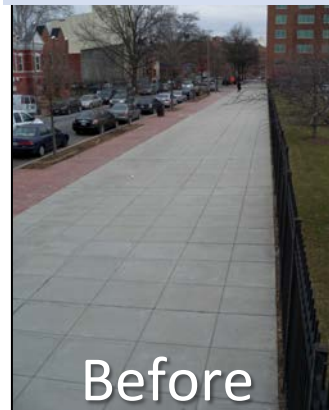
## Tree Space Design



## Bioretention



## Reducing Impervious Surface



P Street NE &  
North Capitol  
Street NE

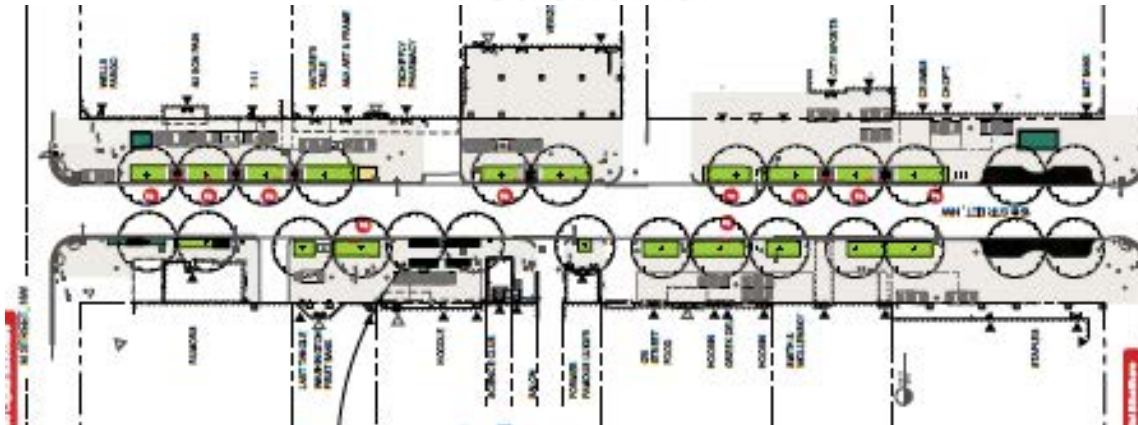
# GI & LID Retrofit Projects

## Ward 2

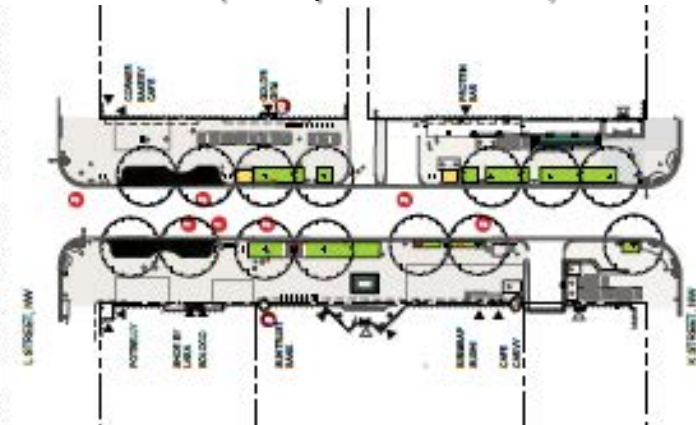
<u>Project Site</u>	<u>Design Status</u>	<u>Construction Start</u>
19 <sup>th</sup> Street NW from K Street to M Street	2015-16	2016-17



Proposed 19<sup>th</sup> Street NW Green Infrastructure Retrofit Plan



19<sup>th</sup> & L Streets NW Bioretention (completed 2014)





# Landscaped Medians/Green Spaces/Tree Services Ward Based

## Goals:

- Support and enhance storm water capture rates from the Districts streets as mandated by EPA in the MS 4 permit
- Tree Boxes shall be maintained by the abutting owner as per the DCMR 24
- Street Trees are maintained by the UFA ISA certified arborist and services should be requested through the Mayor Call Center at 311
- Landscape/green spaces enhance the neighborhood and provide traffic calming

## Status:

- Ongoing and seasonally based



## Schedule:

<b>Trash</b>	<b>Weekly except winter months</b>
<b>Weeding</b>	<b>Monthly from April to October</b>
<b>Mulching, Pruning, and Planting</b>	<b>As needed</b>

# Ward 2 Tree Planting

## Goals:

- Support and enhance community livability
- Satisfy federally-mandated stormwater management consent decree (MS4 Permit)
- Deliver environmental services
  - ✓ Cleaner air - Cleaner water
- To calm traffic
- To beautify neighborhoods!

## Status:

- This fall and spring UFA will install over 315 trees in Ward 2
- Ward 2 is 98% planted!
- DDOT's planting season will start in October and will continue through April

*The link to all our planting sites can be found on the DDOT web site: [ddot.dc.gov/node/500202](https://ddot.dc.gov/node/500202).*



# Streetlight Upgrades

## Ward 2

### Goals:

- Install More Efficient LED Fixtures
  - Reduces power cost
  - Better lighting uniformity
  - Long lasting/low maintenance

### Status:

- Complete – Connecticut Avenue (L Street NW to Dupont Circle)
  - Removed 39 pendant poles with 400W HPS fixtures
  - Replaced with 21 Tear Drop (150W) and 59 Washington Globe (120W) LED fixtures
  - Reduced power consumption by 1/3
- Planned – Francis Scott Key Bridge and Pennsylvania Avenue Bridge upgrades
  - 400W Mercury Vapor to 120W LED



**Old Fixtures**



**New Fixtures**

# Other Projects with Ward 2 Impacts

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- 7<sup>th</sup> Street NW Resurfacing and Streetscape Improvements



# FY15 Projects Update Meetings

- Ward 8 (October 6, 2014)
- Ward 1 (October 27, 2014)
- Ward 7 (November 17, 2014)
- **Ward 2 (TODAY)**
- Ward 6 (January 26, 2015)
  - Tyler Elementary School, 1001 G Street SE
- Ward 3 (February 17, 2015)
  - Woodrow Wilson High School, 3950 Chesapeake Street NW
- Ward 5 (March 9, 2015)
- Ward 4 (March 30, 2015)

Visit [ddot.dc.gov/page/ddot-projects-update-meetings-all-eight-wards](http://ddot.dc.gov/page/ddot-projects-update-meetings-all-eight-wards) to download tonight's PowerPoint and find out the latest information on other meeting dates and locations.

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**7:30 p.m. Questions**

**7:55 p.m. Next Steps**

**8:00 p.m. Adjourn**

Thank you!  
Questions?





